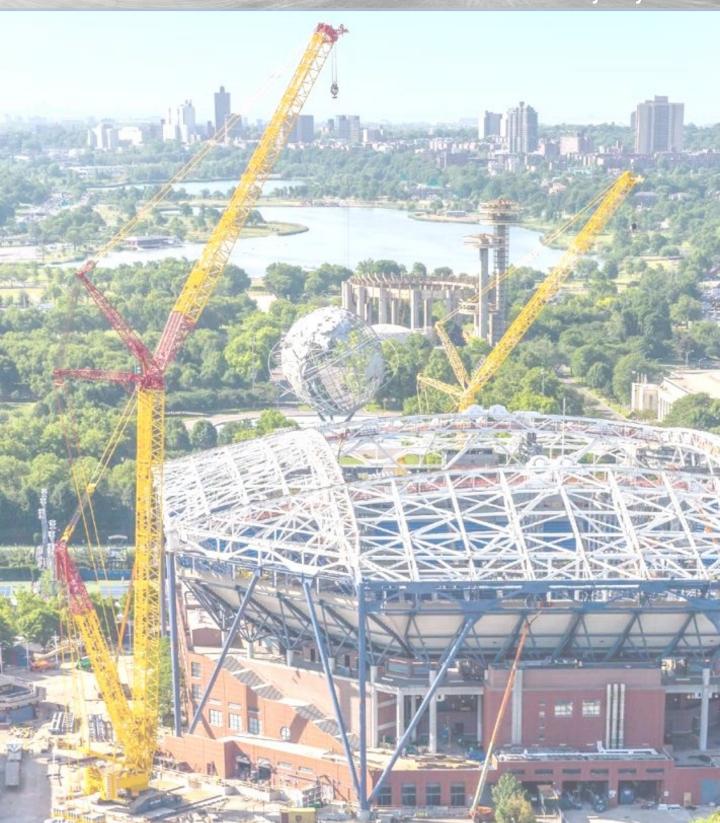
HANCHANG HEAVY EQUIPMENT

Rental of Heavy Duty Cranes





CONTENTS

1) COMPANY PROFILE

Construction industry and construction equipment leasing business as the largest construction equipment owner in Korea diversification of business areas to continuously grow into a global company

2 EQUIPMENT

Optimized as the largest crane rental company in Korea
The maintenance system and professional manpower ensure that
the equipment performs at its maximum.
Grow into a company with the capability to demonstrate

Conduct projects faithfully based on customer satisfaction and trust

3 BUSINESS

Shipyard, steel mill, petrochemical, power plant and construction/wind power, etc.

Establishing a global network from domestic to offshore Business carrying out various projects

4 SAFETY

Safety (S)/Health (H)/Environmental (E) management policy as top priority Conducting pre-inspection prior to work with the goal of zeroing equipment errors

Achievement of project accident-free through smooth communication with signalmen during work



I. Company History

HANCHANG HEAVY EQUIPMENT CO.,LTD. a company established on June 1, 1978, is the largest company in plant installation and equipments that possesses various models, and pride that it has been leading the heavy equipments industry of Korea.















2010's 2019. 05 Registered as construction machinery trade business

01 Acquired ISO 45001 (occupational safety and health management system)

2018. 03 Expanded fishery (took over Hanchang Fishery Co., Ltd.)

2017. 01 Expanded and registered construction machinery apron (Sampyeong-ri)

2016. 02 Registered as harbor transport business

2015. 11 Introduced new LR11000(1000 ton) first

04 Expanded logistics business (took over Hanchang SMT Co., Ltd.)

2013. 09 Established incorporation in Indonesia

04 Trained in BAUMA (construction machinery trade fair in German)

2012. 12 Introduced LR11350(1350 ton) No. 2 domestically

> O9 Joined International Contractors Association of Korea and Korea Specialty Contractor Financial Cooperative as a member Joined Korea Specialty Contractors Association as a member

08 Registered as a construction business(a steel structrue construction business)

OHSAS 18001 certifications

O4 Trained in BAUMA (construction machinery trade fair in German)

-2000's 2009. 05 Introduced LR11350(1350 ton) No. 1 domestically

04 Trained in INTERMAT (construction machinery trade fair in France)

03 Awarded Citation of Duty to Pay Tax in Good Faith on the day of taxpayers

2007. 10 Established Busan corporation in an independent operation system

2001. 11 The capital changed to 2 billion won

1990's 1996. 09 The head office was relocated(in

1995. 04 Registered as a construction machinery

1990. 05 Established Hanchang Heavy
Equipment Co., Ltd.

II. VISION

Let's Go!

For One! For World! For Future

THE WORLD'S No.1 COMPANY, GLOBAL LEADER HANCHANG!







For One!

thrive to achieve it. Acquiring strong internal competence and creating a positive and creative company

For World!

Setting a clear goal and continuously Becoming a company that stands out Nurturing key capabilities as a in the global market through continuous international projects and cyber-marketing, rather than settling as the best in Korea.

For Future!

global leader and creating better value through future-oriented thinking as a global leader.

III. Business Philosophy

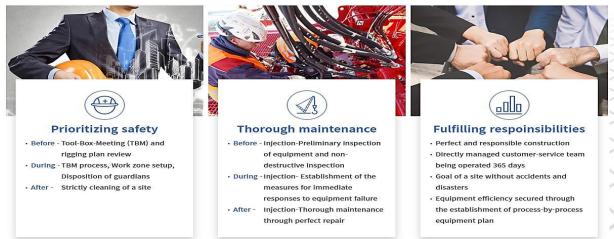
atmosphere united in trust.

"Faithfulness, Diligence, Full effort"

In our company, under the philosophy of "faithfulness, diligence, full effort", all employees thrive to be part of the nation's construction industry through "prioritizing safety, thorough maintenance, and fulfilling respoinsibilities".

We intend to contribute to the nation's key industry by deploying to various construction work utilizing the nation's best machinery such as the latest CRAWLER, MOBILE, and small and large Cranes.





1) Certificate of business registration(Ulsan)

	TH WWW. MAN TO SOLVE WAS AN ANALYSIS OF THE PARTY OF THE	청
발급번호 Issuance number	사업자등록증명 최리기 Certificate of Business Registration Processing po	간 eriod
2224-771-4333-510	(Corporate Taxpayer) Immediat	시 ely
상 호 (법 인 명 Name of compan	한창중기 (주) HAN CHANG HEAVY EQUIPMENT CO., LTD.	
사 업 자 등 록 번 호 Business registratio number	610-81-21136	
성 명 (대 표 자 Name of representativ	김성태 SUNG TAE, KIM	
주민(법인)등록번호 Resident(Corporation registration numbe	181211-0030903	4-7
사 업 장 소 재 기	울산광역시 울주군 온산읍 내동3길 1	
Address	1, Naedong 3-gil, Onsan-eup, Ulju-gun, Ulsan, Korea	
게 업 Date of busines commencemen	1995년(Year) 01월(Month) 05일(Day)	
사 업 자 등 록 역 Date of busines registratio	1995년(Year) 01월(Month) 18일(Day)	
엄	건설기계도급및대여/제조업	
Business typ	Construction, managed in the	
秀 Business ite	3년초과 건설기계 Renting of Construction or Demolition Equipment with Operator 산업용부품가공제조	
	Manufacture of Other Work trucks, Lifting and Handling Equipment	
	성명(법인명)/ 주민(사업자)등록번호 Name(Name of company) Resident(Business) registratio	on no
공 동 사 업 지 Joint business owner	해당사항 없습니다 (No Data)	
접 수 번 호 500110	위와 같이 증명합니다. We hereby certify the above.	
담 당 부 서 민원봉		
Department Taxpayer 답 당 자 임경주 Staff in Charge	Service Center Year Month Day	5
어 과 의	을 선세무서 Head of Ulsan District Tax Office (Star	np)
™ ☎ 국세청		

1) Certificate of business registration(Ulsan)

제 148 호 No.148

해외건설업신고필증

(Certification of International Contractor)

상 호: 한창중기(주)

(Name of Company) (Hanchang Heavy Equipment Co., Ltd.)

대 표 자:김성태

(Name of Company (Kim Sung Tae) Representative)

신 고 업 종: 강구조물공사업

(Type of Business) (Steel Structure Works)

영업소 소재지 : 울산광역시 울주군 온산읍 내동3길 1 (Address of Company) (1 Naedong3-gil, Onsan-eup, Ulju-gun,

Ulsan, Korea)

해외건설촉진법 제6조 제1항의 규정에 의하여 해외건설업의 신고를 하였음을 증명합니다.

(This is to certify that the above mentioned company is an enrolled international contractor in compliance with Clause 1 under Article 6 of Overseas Construction Promotion Act)

2012년 08월 23일

해 외 건 설 협 호

(Chairman of International Contractors



of Korea)

30306-00211일 '99.1.18개정 승인

해외건설업신고사항(상호, 대표자, 영업소소재지)이 변경된 경우 사유발생일로부터 30일이내 반드시 변경신고를 하시기 바랍니다. 210mm x 297mm (보존용지(1종)120g/m²)



2) ISO certificate (ISO9001)

C PORTING CONTINUE OF THE PARTY OF THE PARTY



This is to certify that:

HANCHANG HEAVY EQUIPMENT Co., Ltd.

47-18, Jongdong-gil, Onsan-eup, Ulju-gun, Ulsan, Korea

Has been assessed by International Certification Registrar Ltd., in respect of their Quality Management Systems and found to comply with

ISO 9001:2015

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope

Subcontract and Rental of Construction Equipment

Expiration Date : 08th June 2024 Certificate No. : Q360912

 ${\mathbb M}$ This certificate is valid by completion of surveillance audit which is conducted within 12 months from the certification date.

The Seal of ICR Limited was hereto affixed in the presence of :

President



This certificate is intellectual property of ICR.
This certificate is only valid by completion of surveillance audit which is conducted at itsust once a year
You can writy the authenticity of this certificate on "Certification Confirm" at wave icrea.com
If you can not maintain the certificate, this certificate shall be returned to ICR.

RHCR Co., Ltd. 112, Hivanggeum 3-ro 7bean-git, Yangchen-eup, Gimpo-pl, Gyeonggi-do, Korea http://www.jcrga.com

2) ISO certificate (ISO14001)



Certificate
of Registration

This is to certify that:

HANCHANG HEAVY EQUIPMENT Co., Ltd.

47-18, Jongdong-gil, Onsan-eup, Ulju-gun, Ulsan, Korea

Has been assessed by International Certification Registrar Ltd., in respect of their Environmental Management Systems and found to comply with

ISO 14001:2015

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope

Subcontract and Rental of Construction Equipment

Expiration Date : 08th June 2024 Certificate No. : E191212

* This certificate is valid by completion of surveillance audit which is conducted within 12 months from the certification date.

The Seal of ICR Limited was hereto affixed in the presence of:

President



This certificate is intellectual property of ICP.

This certificate is only valid by completion of surveillance audit which is conducted at least once a year.

You can verify the authoritisty of this certificate on "Certification Confern" at overucing core.

If you can not minimize the certification, this certificate shall be returned to ICP.

HICR Co., Ltd. 112, Hwanggawn 3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeunggi-do, Karea http://www.icrgs.com



2) 2) ISO certificate (ISO45001)

This is to certify that:



HANCHANG HEAVY EQUIPMENT Co., Ltd.

47-18, Jongdong-gil, Onsan-eup, Ulju-gun, Ulsan, Korea

Has been assessed by International Certification Registrar Ltd., in respect of their Occupational Health and Safety Management Systems and found to comply with

ISO 45001:2018

Approval is hereby granted for registration providing the rules and conditions relating to certification are observed at all times.

Certification Scope

Subcontract and Rental of Construction Equipment

Certificate Issue Date :14th June 2019 Initial Issued Date : 14th June 2019 Expiration Date :13th June 2022 Certificate No. : OHK022619

X This certificate is valid by completion of surveillance audit which is conducted within 12 months from the certification date.

The Seal of ICR Limited was here to affixed in the presence of:

President



KAB-OC-25

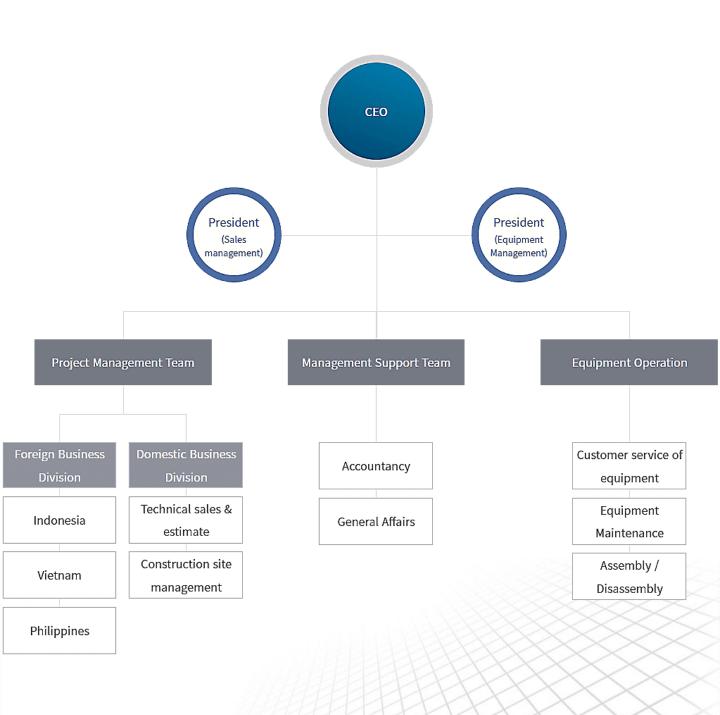
as an Occupational Health & Safety Management System certification bod (Accreditation Number KAB-QC-25).

This certificate is intellectual property of ICR.
This certificate is only with the complation of sure-effects audit which is conducted at least once in year.
You can verify the authenticity of this certificate on "Certification Costine" at minimizing once
if you can not marriate the medication, this certificate shall be insured in ICR.

ICR Co., Ltd. 112, Hwaregeum 3-to //bean-gil, Yangchon-eup, Gimpo-si, Gyronggi-da, Korea http://www.icrga.com



V. ORGANIZATION



VI. Partners

1) Shipbuilding



























GEOSEONG SHIPPING & ENGINEERING CO., LTD





2) Petrochemical

























금호억유화학

HYOSUNG



Green & Chemical

3) Construction



ροsco 포스코플랜텍





















📤 현대엔지니어링









VII. Location

1) Head Office / Ulsan Yard



Address 47-18, Jongdong-gil, Onsan-eup, Ulju-gun, Ulsan, Korea

T E L +82-52-237-4300~4304

F A X +82-52-238-0163



















2) Busan Office



#1911 Ocean Tower, 203 Haeundae Haeb Address yeon-ro, U-dong, Haeundae-gu, Busan

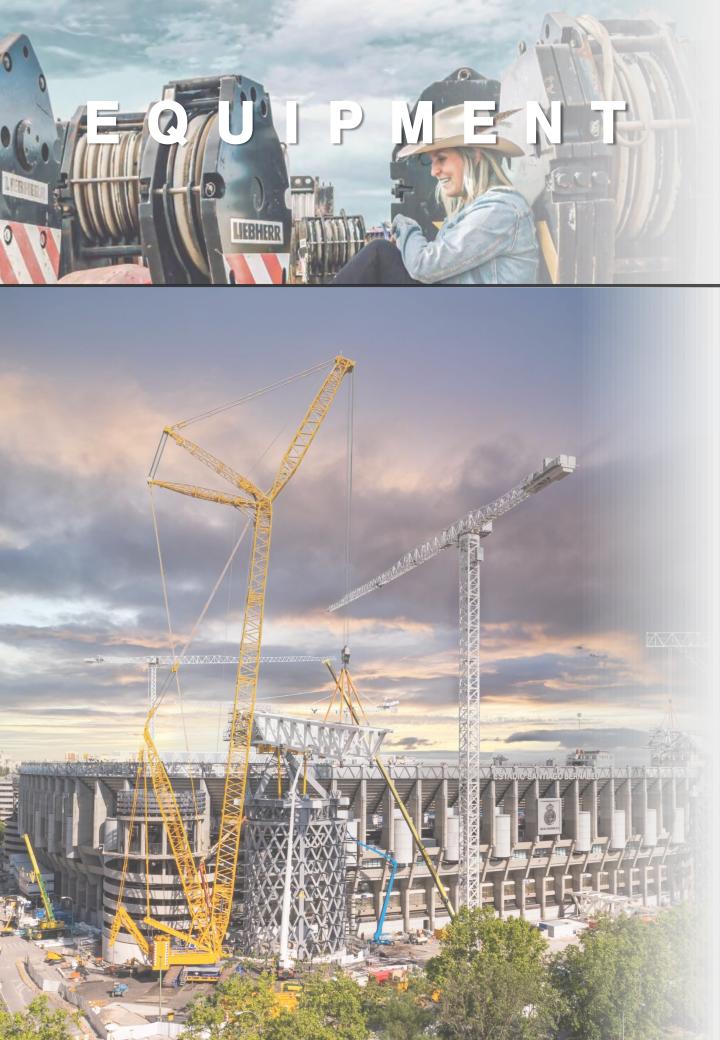
Korea

T E L +82-51-740-5980~2

F A X +82-51-740-5983







I. Equipment List

1) Crawler Crane

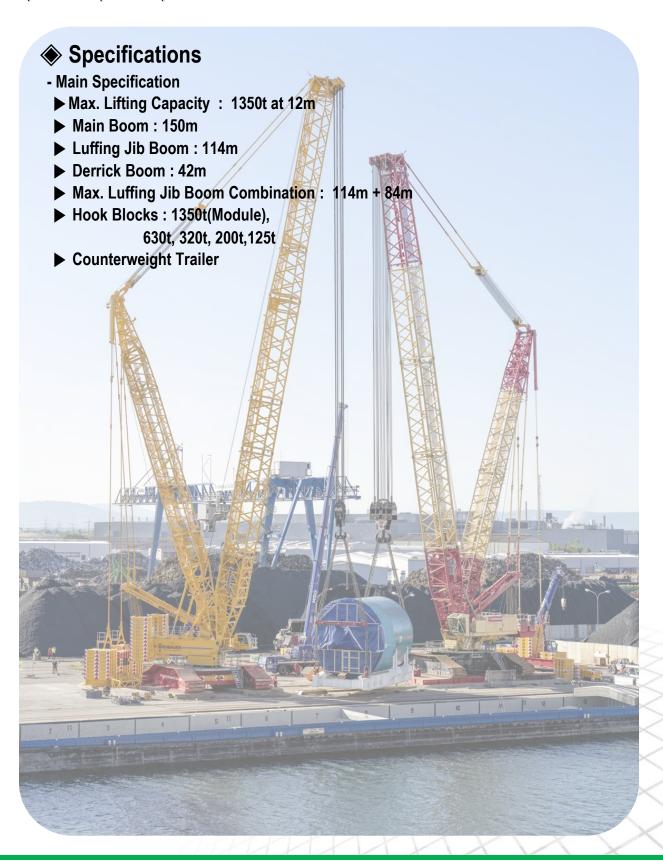
Model	Maker	Nation	Ton	Q'ty	Remark
LR11350	LIEBHERR	Germany	1350T	2	
LR11000	LIEBHERR	Germany	1000T	1	
LR1750	LIEBHERR	Germany	750T	5	
LR1550/650	LIEBHERR	Germany	550T	1	
LR1450-K	LIEBHERR	Germany	450T	1	
7700SL	SENNEBOGEN	Germany	320T	2	
SCX2800-2	SUMITOMO	Japan	275T	5	

2) Mobile Crane

Model	Maker	Nation	Ton	Q'ty	Remark
LTM11200-9.1	LIEBHERR	Germany	1200T	1	
LTM1750-9.1	LIEBHERR	Germany	750T	1	
LTM1500-8.1	LIEBHERR	Germany	500T	1	
LTM1400-7.1	LIEBHERR	Germany	400T	1	
LTM1300-6.2	LIEBHERR	Germany	300T	1	
LTM1250-5.1	LIEBHERR	Germany	250T	1	
LTM1100-5.2	LIEBHERR	Germany	100T	2	

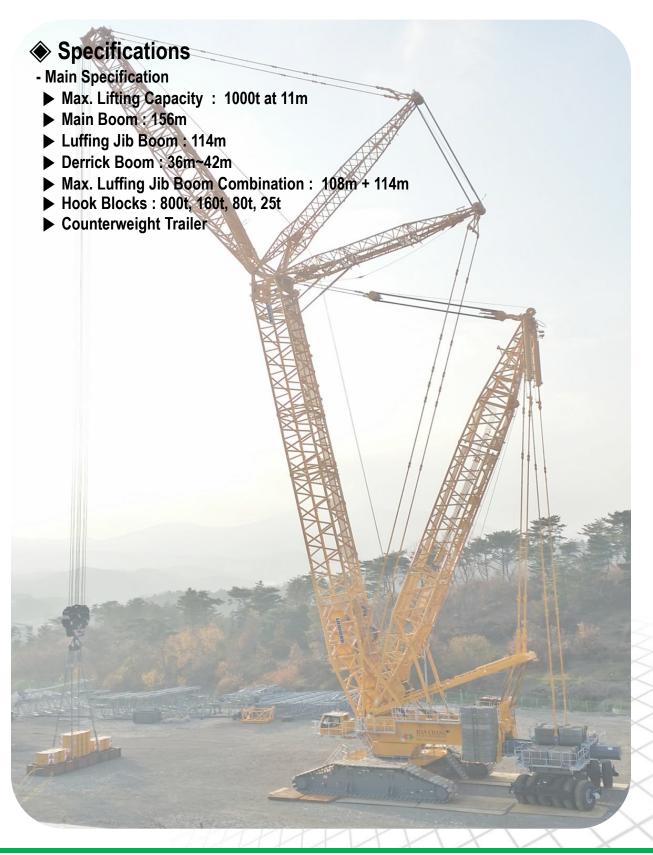
II. Introduction of Equipment

1) LR11350(1350Ton)



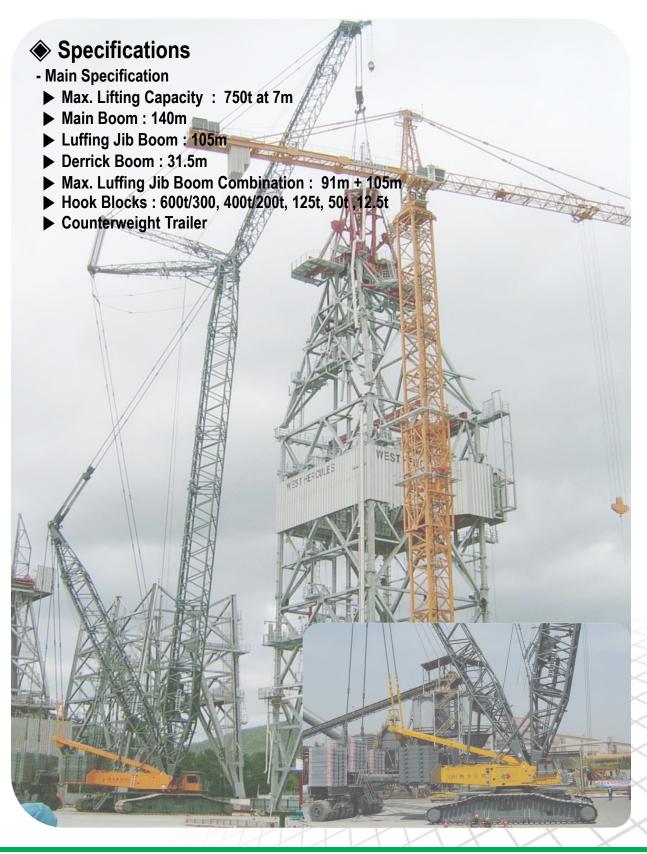
II. Introduction of Equipment

2) LR11000(1000Ton)



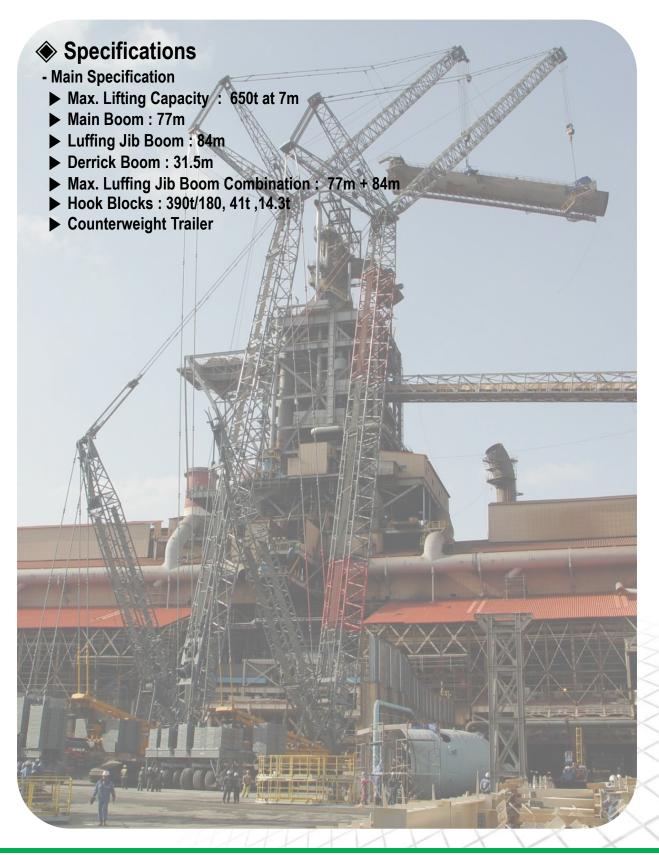
II. Introduction of Equipment

3) LR1750(750Ton)



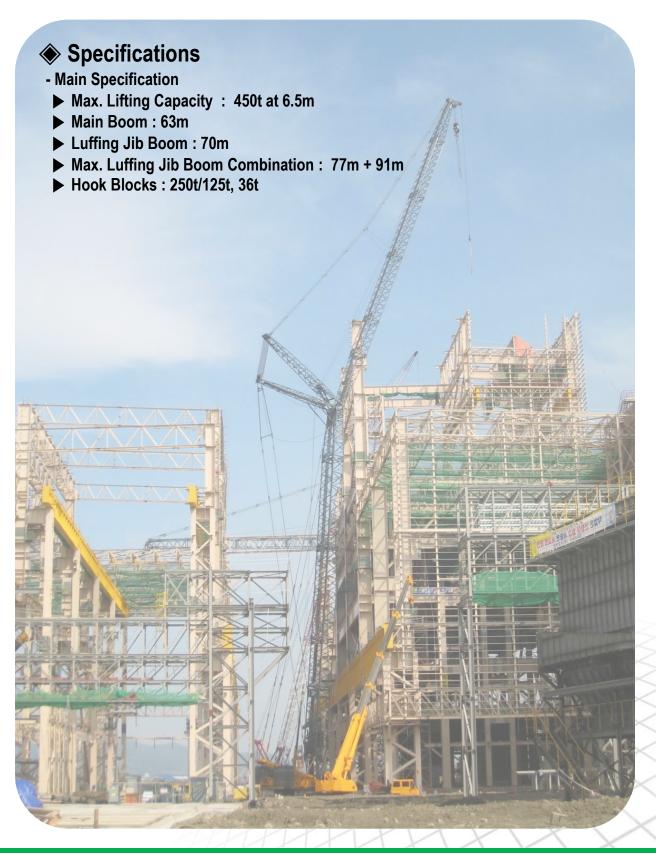
II. Introduction of Equipment

4) LR1550/650(550Ton)



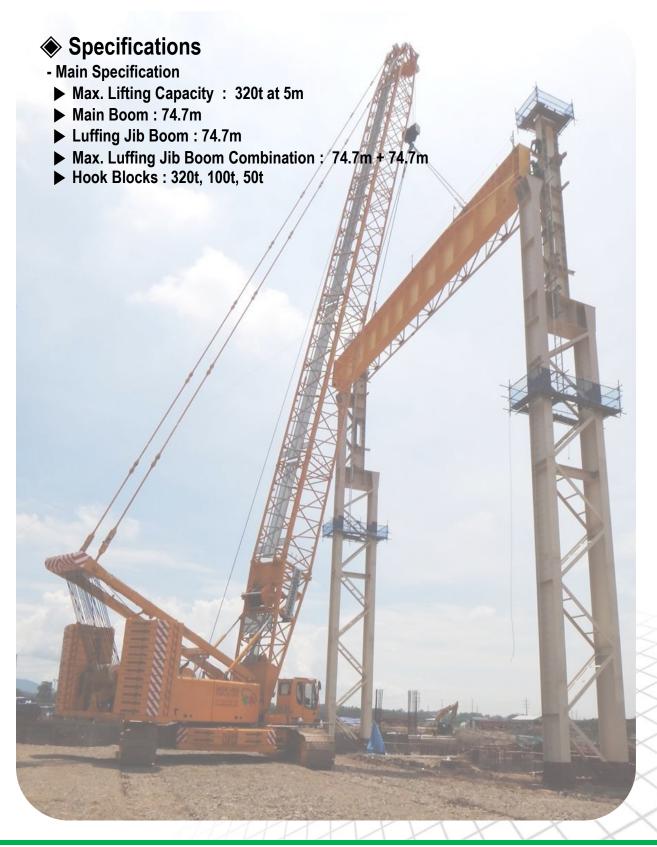
II. Introduction of Equipment

5) LR1450-K(450Ton)



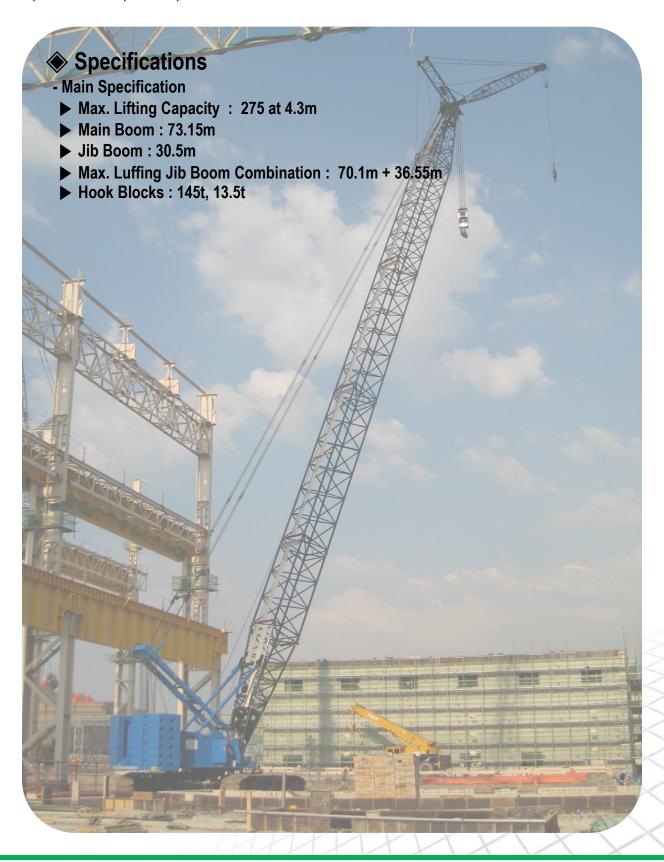
II. Introduction of Equipment

6) 7700SL(320Ton)



II. Introduction of Equipment

7) SCX2800-2(275Ton)



II. Introduction of Equipment

8) Mobile Crane







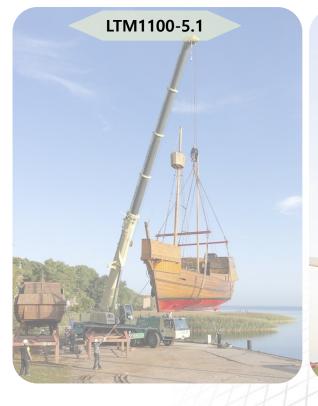


II. Introduction of Equipment

8) Mobile Crane







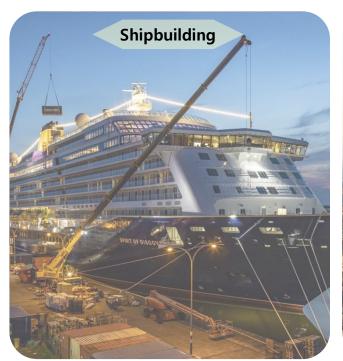


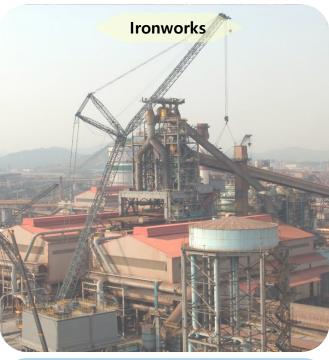


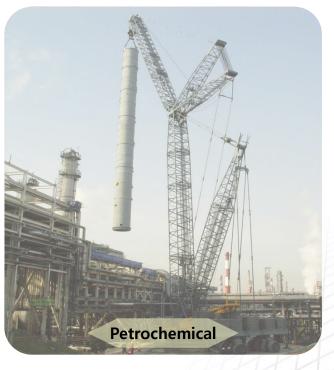


I. Equipment Business





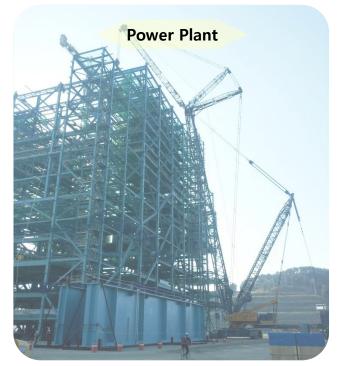


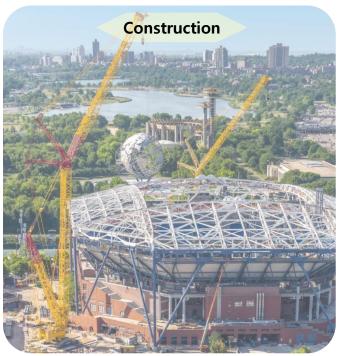


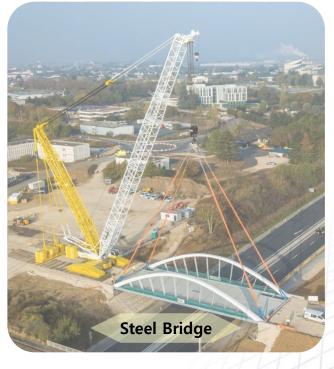


I. Equipment Business











II. Business Performance

1) Shipbuilding

NO	PROJECT NAME	LOCATION	CONTRACTOR	CRANE	DATE of WORK	REMARK
1	Geoje Okpo Shipyard Ship Block Work	Geoje	DSME	LR11000(1000T)	2023	
2	Construction site of Onsan Factory of Shinhan Heavy Industries	Ulsan	DSHI	SCX2800-2(275T)	2021	
3	Ship block work in Yongyeon of Hyundai Mipo Dockyard	Ulsan	Hyundai mipo Dockyard	LR1450-K	2020	
4	Construction site of Onsan Factory of Shinhan Heavy Industries	Ulsan	DSHI	LR11350(1350T) LR11000(1000T)	2019	
5	Construction sites of shipyard of Daewoo Shipbuilding & Marine Engineering Okpo	Geoje	DSME	LR1750(750T)	2018	
6	Construction sites of Samsung Heavy Industries Geoje Shipyard	Geoje	Samsung Heavy Inductries	LR11350(1350T)	2017	
7	FCC TURN-OVER work of Hyundai Heavy Industries	Ulsan	нні	LR1750(750T)	2016	
8	Construction site of Geoje Sadeung Derrick KT submarine installation	Geoje	KT Submarine	LR1750(750T)	2015	
9	Construction site of block work of Hyundai Samho Heavy Industries Mokpo	Mokpo	Hyundai Samho Heavy Industries	LR1800/1000(1000T)	2014	
10	Daewoo Shipbuilding & Marine Engineering Angola AYANG #Project	Angola	DSME	LR1750(750T)	2012	
11	Site of Hyundai Heavy Industries Yongyeon	Ulsan	HHI	LR1750(750T)	2011	
12	Site of STX Heavy Industries Jinhae	Changwon	Postech	LR1750(750T)	2011	
13	Daewoo Shipbuilding & Marine Engineering Romania	Romania	DSME	LR1750(750T)	2009	
14	Daewoo Shipbuilding & Marine Engineering Sangdong	YANTAI	DSME	LR1550/650(550T)	2009	
15	Samsung Heavy Industries Geoje Shipyard	Geoje	Samsung Heavy Inductries	LR1750(750T)	2009	
16	Construction sites of Youngdo & Incheon Duckywards of HJ Shipbuilding & Construction	Busan/Incheon	HHIC	LR1750(750T)	2006	

NO	PROJECT NAME	LOCATION	CONTRACTOR	CRANE	DATE of WORK	REMARK
1	Construction site of POSCO Pohang Steel Mill 6 Corks	Pohang	Geomyeong E&C	LR1750(750T)	2022	
2	Construction site of the main equipment of POSCO Gwangyang 4th Blast Furnace	Gwangyang	Samjin Industrial	LR11350(1350T) LR1750(750T)	2022	
3	Construction site of the main equipment of POSCO Gwangyang 3rd Blast Furnace	Gwangyang	Samjin Industrial	LR11350(1350T) LR1750(750T)	2021	
4	Construction site of POSCO Pohang 17 Oxygen System	Pohang	Daeah E&C	LR11000(1000T)	2021	
5	Construction site of the 2nd repair PCI work of POSCO Gwangyang 4th Blast Furnace	Gwangyang	Posco Plantec	LR1750(750T)	2020	
6	Construction site of the 3rd repair work of POSCO Pohang 3rd Blast Furnace	Pohang	Geomyeong E&C	LR11350(1350T) LR1750(750T)	2020	
7	Construction site of the installation of equipment at POSCO Pohang Steam Power Plant	Pohang	BH Tech	LR1750(750T)	2019	
8	Construction site of the installation of Hyundai Steel Incheon Factory Overhead Crane	Incheon	Hwabin ENG	LR1750(750T)	2019	
9	Construction site of the repair of Dangjin Blast Furnace of Hyundai Steel	Dangjin	Hyundai Rotem	LR1750(750T)	2018	
10	Construction site of the installation of Suncheon C old-rolled 3CGL of Hyundai Steel	Suncheon	Hyundai Engineering &Steel Industries	LR1750(750T) 7700SL(320T)	2016	25-52
11	Construction site of Intergated Steel Mill of POSCO Indonesia	Indonesia	Posco E&C	LR1750(750T) 외多	2015	
12	Construction site of the installation of POSCO Finex 2nd	Pohang	Posco E&C	LR1750(750T)	2013	
13	Construction site of the 2nd repair of POSCO Poshang 4th Blast Furnace	Pohang	Posco E&C	LR11350(1350T) LR1750(750T)	2010	
14	POSCO Gwangyang 5 Coke CDQ	Gwangyang	Posco E&C	LR1750(750T)	2010	
15	Construction site of POSCO Pohang New Steel Mill	Pohang	Posco E&C	LR1750(750T)	2010	\times
16	Construction site of the 4th repair work of POSCO Gwangyang Hot blast stove 2nd Blast Furnace	Gwangyang	Posco E&C	LR1750(750T)	2009	\times
17	POSCO Gwangyang Plate & Steel Mill	Gwangyang	Posco E&C	LR1750(750T)	2009	
18	Construction site of the 3rd repair of POSCO Gwangyang 1 Steel Mill	Gwangyang	Posco E&C	LR1550/650(550T)	2009	\times
19	POSCO Pohang Finex 1st	Pohang	Posco E&C	LR1750(750T)	2007	
20	Construction site of the 3rd repair of POSCO Gwangyang3 Steel Mill	Gwangyang	Posco E&C	LR1750(750T)	2007	/
21	Construction site of POSCO Gwangyang No.6 CGL	Gwangyang	Posco E&C	LR1550/650(550T)	2006	



II. Business Performance

3) Plants

NO	PROJECT NAME	LOCATION	CONTRACTOR	CRANE	DATE of WORK	REMARK
1	Construction site of Daehan Yuhwa Onsan Factory KPIC NEO-II & KBD Project	Ulsan	GS E&C	LR11350(1350T)	2022	
2	Linde Korea Pyeongtaek Cold Box 2nd installation work	Pyeongtak	Hanyang ENG	LR11000(1000T)	2022	
	GS Caltex Yeosu Plant 2 Replacement of Aging Equipment	Yeosu	Yuhangisul	LR11350(1350T) LR11000(1000T)	2022	
	Site of Gangneung Anin Thermal Power Plant	Gangneung	Geomyeong E&C	LR1750(750T)	2021	
5	Site of the offshore wind power in Vietnam	Vietnam	MIN HOANG	LR11350(1350T)	2021	
6	Construction of Yeongheung Wind Power Plant	Incheon	DOOSAN HEAVY IND USTRIES	LR1750(750T)	2021	
7	Replacement work of Yeongwang Nuclear power plants no. 3 and no. 4 SGR	Yeongwang	DL E&C	LR11350(1350T)	2021	
	Installation work of Linde Korea Pyeongtaek Cold Box	Pyeongtaek	Hanyang eng	LR11000(1000T)	2021	
	Daehan-yuhwa Onsan Plant KSA Project	Ulsan	KHAN	LR1750(750T)	2021	
10	New construction of SK hynix Icheon Smart Energy Center	Icheon	SK E&C	LR1750 (750T) 7700SL (320T)	2020	
11	Construction sites for new establishment of Yeosu GS Caltex MFC/LG Chem	Yeosu	GS E&C LG ServeOne	LR11000 (1000T) LR1750 (750T)	2020	
12	Construction site of Shin-Kori Nuclear power plants no. 5 and no. 6.	Ulsan	SAMSUNG C&T	LR11350(1350T) LR1750(750T)	2020	
13	Construction site of Samcheok Thermal Power Plant no. 1 and no. 2.	Samcheok	GEMYEONG E&C	LR11350(1350T)	2020	
14	Construction site of SK Goseong Hi Thermal Power Plant no. 1 and no. 2.	Goseong	SK E&C	LR1750(750T)	2019	
15	S-OIL Onsan Factory RUC Project	Ulsan	DL E&C	LR11350(1350T) LR1750(750T)	2017~2018	
16	Yeosu Lotte Chemical H-NC3 Project	Yeosu	Samsung Engineering	LR11350(1350T)	2017	
17	Construction site of Samcheok Green Power no. 1 and no. 2.	Samcheok	DAEWOO E&C	LR1750(750T)	2015	
18	Construction site of Bukpyeong Thermal Power Plant	Samcheok	STX Heavy Industries	LR11350(1350T)	2014	
19	Hyundai Oilbank Daesan #1LBO Project	Daesan	HYUNDAI E&C	LR11350(1350T) LR1750(750T)	2014	
20	Ulsan SK New PX Project	Ulsan	SK E&C	LR1750(750T)	2013	
21	Construction site of Shin Uljin Nuclear Power Plant no. 1 and no. 2.	Uljin	HYUNDAI E&C	LR11350(1350T) LR1750(750T)	2012	
22	Honam Petrochemical HPC EM2 Project	Yeosu	Samsung Engineering	LR11350(1350T) LR1750(750T)	2011	
23	Hyundai Oilbank Daesan #2 HOU Project	Daesan	HYUNDAI E&C	LR11350(1350T) LR1750(750T)	2010	
	Ulsan SK Energy NEP Project	Ulsan	SK E&C	LR1750(750T)	2010	
25	S-Oil Onsan Factory SEP Project	Ulsan	S-OIL	LR1750(750T)	2009	
26	Construction site of work in Yeosu Chemical Complex	Yeosu	SK E&C	LR1550/650(550T)	2009	



II. Business Performance

4) Construction

NO	PROJECT NAME	LOCATION	CONTRACTOR	CRANE	DATE of WORK	REMARK
1	Construction of Samsung Semiconductor's Godeok P3 Complex in Pyeongtaek	Pyeongtak	Samsung Engineering	LR11350(1350T)	2022	
2	Construction of Anseong–Guri Expressway Section 9 Installation	Gwangju	Bugang Steel	LR1750(750T)	2022	
3	Construction site of the distribution center in Wonchang-dong, Incheon	Incheon	EG Global	LR1750(750T)	2022	
4	New construction of Smart Hub Logistics Center in Daejeon	Daejeon	SAMSUNG C&T	LR1550/650(550T)	2021	
5	New construction Dudong HY Logistics Center in Changwon	Changwon	DAEHAN ENGINEERING & CONSTRUCTION	7700SL(320T)	2021	
6	Construction of KCC Incheon logistics center	Incheon	EG Global	LR1750(750T)	2021	
	Construction site of the installation of Busan Bukhang Bridge 1 and Bridge 3	Busan	DAESUNG STEEL BRIDGE	LR1750(750T)	2021	
8	Samsung Pyeongtaek Semiconductor FAB #3 Project	Pyeongtak	SAMSUNG C&T	LR1750(750T) SCX2800-2(275T)	2020	
9	HSVC OL1 Project	Vietmam	E TEC E&C	LR11350(1350T)	2020	
10	New construction of POSCO Yangji Logistics Center	Yongin	HANSUNG PC	LR1750(750T)	2020	
11	Construction of the installation of Samsung Pyeongtaek Semiconductor FAB #2 Over Bridge	Pyeongtak	SAMSUNG C&T	LR11350(1350T) LR1750(750T)	2019	
12	Construction of Naju-Damyang Outer Circular Expressway	Damyang	DAESEUNG ENGINEERING	LR11350(1350T)	2019	
13	New construction of Dongwon Logistics Center	Yongin	Yonhap	LR1750(750T)	2018	
14	Construction site of Incheon International Airport of the 2nd Government Complex	Incheon	HANJIN HEAVY INDUSTRIES	LR1550/650(550T)	2016	
15	Extension construction of Ulsan City Park Mall	Ulsan	KCC Engineering &Construction	7700SL(320T) SCX2800-2(275T)	2015	
16	Philippines ARENA Project	Philippines	Hanwha Engineering &Construction	LR1750(750T)	2013	
17	Construction of the installation of Russkiy Island Bridge, Vladivostok, Russia	Russia	SARENS NV	LR11350(1350T)	2011	
18	Construction site of Subic of Hanjin Heavy Industries & Construction	Philippines	HANJIN HEAVY INDUSTRIES	LR1750(750T)	2006	

5) Wind Power

NO	PROJECT NAME	LOCATION	CONTRACTOR	CRANE	DATE of WORK	REMARK
1	Construction of the installation of Shinhung Wind Power Plant	Muan	CNPLUS	LR11350(1350T)	2022	
2	Construction of the installation of Yeongyang Wind Power Plant	Yeongyang	KWANGJIN GLOVIS	LR1750(750T)	2022	
3	Construction of the installation of Pyeongchang Wind Power Plant	Pyeongchang	KWANGJIN GLOVIS	LR1750(750T)	2022	
4	Construction of the installation of Taebaek Wind Power Plant	Taebaek	Future Construction	LR1750(750T)	2022	
5	Construction of the installation of Wondong Wind Power Plant	Yangsan	DONGBANG	LR1750(750T)	2022	
6	Construction site of the offshore wind power plant in Vietnam	Vietnam	MIN HOHANG	LR11350(1350T)	2021	
7	Replacement construction of Yeongheung Wind Power Plant	Incheon	DOOSAN HEAVY IND USTRIES	LR1750(750T)	2021	552
8	Construction of the installation of Yeongyang Wind Power Plant	Yeongyang	KWANG JIN GLOVIS	LR1750(750T)	2019	
9	Construction of the installation of Shinan Wind Power Plant	Shinan	DONGKUK S&C	LR1750(750T)	2018	
10	Construction of the installation of Jeju Woljeong Wind Power Plant	Jeju	Jeju Special Engineeri ng	LR1750(750T)	2017	<
11	Construction of the installation of Jeju Gashiri Wind Power Plant	Jeju	DONGBANG	LR1750(750T)	2014	$\leq \leq$
12	Construction of the installation of Muju Wind Power Plant	Muju	HYUNDAI HEAVY IND USTRIES	LR1750(750T)	2011	\sim
13	Construction of the installation of Taebaek Gwinemi Village Wind Power Plant	Taeba□	HYUNDAI HEAVY IND USTRIES	LR1550/650(550T)	2011	$\langle \langle$
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III. Business Performance Data

1) Shipbuilding

Project	DSHI SHIP BLOCK WORK			
Contractor	DSHI			
Location	Ulsan			
Period	2019.08~			
Main Crane	LR11350(1350Ton)			
Tail Crane	LR11000(1000Ton)			
Remark				
Remark				



Project	HHI CMC Project
Contractor	нні
Location	Ulsan
Period	2012.10~
Main Crane	LR11350(1350Ton)
Tail Crane	-
Remark	





III. Business Performance Data

1) Shipbuilding

Project	Doosan Vina Vietnam RMQC
Contractor	Doosan Heavy Industries
Location	Vietnam
Period	2016.11~
Main Crane	LR1550/650(550Ton)
Tail Crane	SCX2800-2(275Ton)
Remark	





III. Business Performance Data

1) Shipbuilding

Project	Shinan Heavy Industries Goliath Crane Installation
Contractor	Shinan Heavy Industries
Location	Mokpo
Period	2011.05~
Main Crane	LR1750(750Ton)
Tail Crane	
Remark	
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and the second	
Project	Sungjin Geotech 4P1 Turn Over Work
Contractor	Sungjin Geotech
Location	Ulsan
Period	2010.08~
Main Crane	LR11350(1350Ton)
Tail Crane	CKE4000C(400Ton)
Remark	



III. Business Performance Data

Project	Posco Gwangyang 3 Blast Furnace Body Facility Work
Contractor	Posco E&C
Location	Gwangyang
Period	2019.04~
Main Crane	LR11350(1350Ton)
Tail Crane	
Remark	









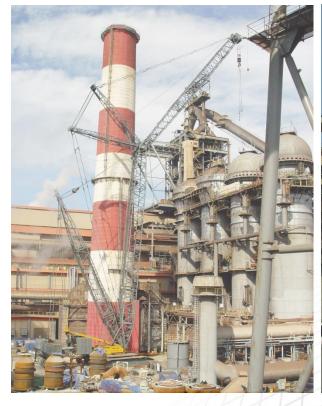


III. Business Performance Data

Project	POSCO Pohang 2 blast furnace renovation work
Contractor	Posco E&C
Location	Pohang
Period	2010.04~
Main Crane	LR11350(1350Ton)
Tail Crane	LR1750(750Ton)
Remark	



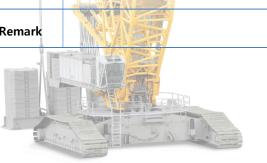






III. Business Performance Data

Project	Posco integrated steelworks phase 1 construction
Contractor	Posco E&C
Location	Indonesia
Period	2012.01~2015.04
Main Crane	LR1750(750Ton)
Tail Crane	LR1450-K(450Ton) 외 多
Remark	





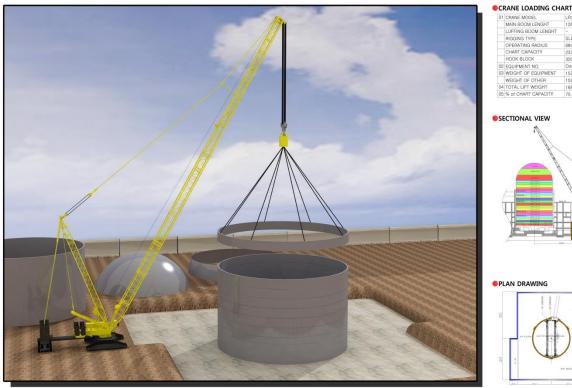




3) Plants (nuclear power plant)

Project	Shinhanul Nuclear Power Plant Units 1 and 2 site
Contractor	HDEC
Location	Uljin (Gyeongbuk)
Period	2013.01~2015.06
Main Crane	LR11350(1350Ton)
Tail Crane	
Remark	







3) Plants (thermal power plant)

Project	Bukpyeong Thermal Power Plant Heavy Girder Installation
Contractor	STX heavy industry
Location	Samcheok
Period	2014.10~
Main Crane	LR11350(1350Ton)
Tail Crane	
Remark	







Project	Hyundai Oilbank #1 LBO Project
Contractor	HDEC
Location	Daesan
Period	2014.04~
Main Crane	LR11350(1350Ton)
Tail Crane	Tailing Device
Remark	









III. Business Performance Data

Project	Hyundai Oilbank #2 HOU Project
Contractor	HDEC
Location	Daesan
Period	2010.10~
Main Crane	LR11350(1350Ton)
Tail Crane	LR1750(750Ton)
Remark	





III. Business Performance Data

Project	Honam Petrochemical HPCEM2 Project
Contractor	Samsung eng
Location	Yeo su
Period	2011.04~
Main Crane	LR11350(1350Ton)
Tail Crane	LR1750(750Ton)
Remark	









III. Business Performance Data

Project	Linde Korea Godeok Cold Box
	installation
Contractor	Hanyang eng
Location	Pyeongtaek
Period	2021.05~
Main Crane	LR11000(1000Ton)
Tail Crane	
Remark	
	HEBHER LA 11000



Project	GS Caltex MFC New Project
Contractor	GS e&c
Location	Yeo su
Period	2020.01~
Main Crane	LR11000(1000Ton)
Tail Crane	
Remark	



Project	LG Chem Y2C Project
Contractor	LG Subone
Location	Yeo su
Period	2020.02~
Main Crane	LR11000(1000Ton)
Tail Crane	
Remark	
	WEHER LE HOOD



Project	LG Chem Y2C Project
Contractor	LG Subone
Location	Yeo su
Period	2020.04~
Main Crane	LR1750(750Ton)
Tail Crane	
Remark	
(5)	



Project	SK New PX Project
Contractor	SK e&c
Location	Ulsan
Period	2013.03~
Main Crane	LR1750(750Ton)
Tail Crane	
Remark	
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and annual state of the state o		
Project	SK No.6 MDU Project	
Contractor	SK e&c	
Location	Ulsan	
Period	2010.05~	
Main Crane	LR1750(750Ton)	
Tail Crane		
Remark		



III. Business Performance Data

Project	S-OIL RUC Project
Contractor	Yeonggwang
Location	Ulsan
Period	2018.02~
Main Crane	LR1750(750Ton)
Tail Crane	-
Remark	







III. Business Performance Data

Project	SK Hynix Smart Energy Center	
Contractor	SK e&c	
Location	Icheon (Gyeonggi-do)	
Period	2020.10~	
Main Crane	7700SL(320Ton)	
Tail Crane	-	
Remark		







III. Business Performance Data

4) Construction

Project	Russkiy Island Bridge installation	
Contractor	SK MOST	
Location	Vladivostok, Russia	
Period	2011.09~	
Main Crane	LR11350(1350Ton)	
Tail Crane	-	
Remark		







4) Construction

Project	Samsung Semiconductor FAB #2 Over Bridge Installation	
Contractor	Samsung c&t	
Location	Pyeongtaek	
Period	2019.04~	
Main Crane	LR11350(1350Ton)	
Tail Crane		
Remark		



Project	Honam high-speed railway section 1-1 Girder installation	
Contractor	DH Construction	
Location	Jeonnam	
Period	2011.03~	
Main Crane	LR11350(1350Ton)	
Tail Crane		
Remark		



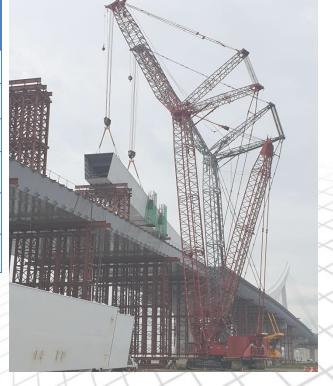
III. Business Performance Data

4) Construction

Project	Construction of Chado 1 Bridge and 3 Bridges in Busan North Port
Contractor	Daesung Steel Bridge
Location	Busan
Period	2021.05~
Main Crane	LR1750(750Ton)
Tail Crane	
Remark	



Project	Saemangeum Steel Bridge Girder Installation	
Contractor	Daesung Steel Bridge	
Location	Gunsan	
Period	2019.09~	
Main Crane	LR1750(750Ton)	
Tail Crane	M18000(750Ton)	
Remark		



III. Business Performance Data

5) Wind Power

Project	Installation of offshore wind power generators in Vietnam	
Contractor	MINH HOANG	
Location	Vietnam	
Period	2021.01~	
Main Crane	LR11350(1350Ton)	
Tail Crane		
Remark		



Project	Yeongheung wind power generator replacement work	
Contractor	Doosan Heavy Industries	
Location	Incheon	
Period	2021.03~	
Main Crane	LR1750(750Ton)	
Tail Crane		
Remark		
915	O WIND	





I. Safety · Health · Environmental

Safety, Health and Environmental, Quality

Hanchang Heavy Equipment is actively striving to become an advanced workplace in terms of safety (S), health (H), and environment (E) management.

We want to adhere to the following principles for active HSE performance.

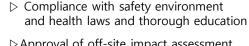
Establish and secure goals and plans to minimize and improve risks and environmental impacts

Conduct SHE requirements compliance assessment

- Workplace and site safety management
 Conduct regular health checkups for workers



- Safety, environment and health policy and performance internal/external disclosure Maintaining transparency
- Conducting a safety, health and environment (SHE) meeting once a week
- >Thorough sharing and response to major issues related to workplace and site safety



 \triangleright Approval of off-site impact assessment



Efforts for Safety

- > Preliminary on-site meeting through on-site survey
- ▷ Before work, after TBM, work input
- ⊳ Signalman during work Thorough signal system



Zero equipment error

- > Thorough equipment inspection provides seamless solutions in case of equipment failure
- > After conducting self-inspection of the equipment once a week, check for abnormalities



II. Safety Management

1) Safety training and inspection

■ Safety Education

new education	In-house safety training for new printing Health checkup before hiring		
regular education	once a month Focus on high rick work		
special education	Conducted safety training for the types of work subject to special safety training - Work using construction machinery Conducting special safety training at the head office once a month		
before work	Strengthen safety awareness among work team members through TBM practice before work Establishment of a culture of voluntary safety practices for risk factors		

■ Safety Inspection

- B/S inspection (3 months): Construction machine function and condition inspection
- Functional inspection (three times a year): Inspection of function and condition of construction equipment, insurance documents
- Safety inspection (6 months): Construction Machinery Management Act + Occupational Safety and Health Act (enforced from January 26, 2012)
- Non-destructive inspection: Bolt, MAST ultrasonic inspection, BOOM BRACER, etc., ultrasonic inspection
- Special inspection: Special inspection in preparation for the winter season

■ Safety Gear

Provision of personal safety equipment such as safety helmets, safety shoes, safety belts (whole type, upper body type), and leggings for new hires

■ Vulnerable Workers

(new/old/service) management

- Determination of site suitability and identification of workers through interviews with new employees
- Timely input after preparation of personnel input plan
- Increased work efficiency through efficient task division according to ability
- Refrain from hiring unverified new workers and seniors through employment agencies
- Prohibition of using service workers(efficiency⊂cost,accident risk ↑, quality ↓
- Eliminate accidents caused by personal diseases in the field through health status checks and health examinations before hiring
- Eliminate accidents caused by drinking on site by conducting alcohol testing and strengthening sanctions for workers during inquiry

■ Safety Management Activities

- Work progress after TBM before work
- Preparation of daytime and nighttime work safety plans and consultation on matters of interference through meetings in charge of each company
- Discovery of risk factors for all types of work and devising countermeasures through joint safety patrol (realization of immediate measures)





















II. Safety Management

2) Site Safety Management

작업 흐름	사진	내용	위험요소	사고 예방 Check
Training completion and certification (approval)		1. Awareness of work content 2. Confirmation of expected risk factors during equipment operation 3. Issuance of driver signalman test certification	Safety accident during work	Communicate key information such as role by job Communicate work details and risk factors Safety certification system certification and approval
2. Zoning and control (placement)		Secure lifting work place Preliminary check of risk factors around the work place Installation of safety facilities	Safety accidents such as confinement and falling in the work place	Site inspection and hazard identification (Foremen, officials) Removal of harmful elements around the workplace
3. Equipment Check(set up)		Omission of other harmful factors such as mechanical defects Check equipment usage restrictions Install outriggers and check braces	collapse fall accident damage to obstruction fall accident	Reexamination of risk factors Check the counterweight for the weight specification Inspection before use, use of checklist
4. Placing and tying signalmen		1. Put on the signalman's uniform and check the leash 2. Binders obey the signal of the lower signalman 3. Compliance with induction rope fastening 4. Check for interference within the upper turning radius	1. Breaking the rope and falling accident 2. Lifting accident with poor connection 3. Material collisions, confinement accidents 4. Collision between equipment	1.Inspection of tether before tying 2. Level check after binding 3. Induction of heavy lifting using an induction rope 4. Check for nearby interference
5. lifting		1.The signalman checks the location of the lifting object in advance and conducts a thorough signal 2. Lifting cargo is settling according to signalman's radio signal	left at high altitude for a long time Collisions and constriction accidents during lifting	pre-positioning(Lower→Upper signal handover strict adherence) Utilize the In-Use Inspection Checklist
6. Lifting cargo binding termination		1. Lifting cargo binding termination	Safety accident while handling heavy lifting (entanglement, overturning)	Be careful not to stumble and Stumble
7. end of work	- min	tidying up the workplace Securing export route		Inspection after use (Cleaning up and cleaning))

division

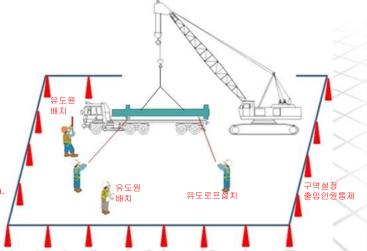
ment Measur

es

Safety management when using a crane

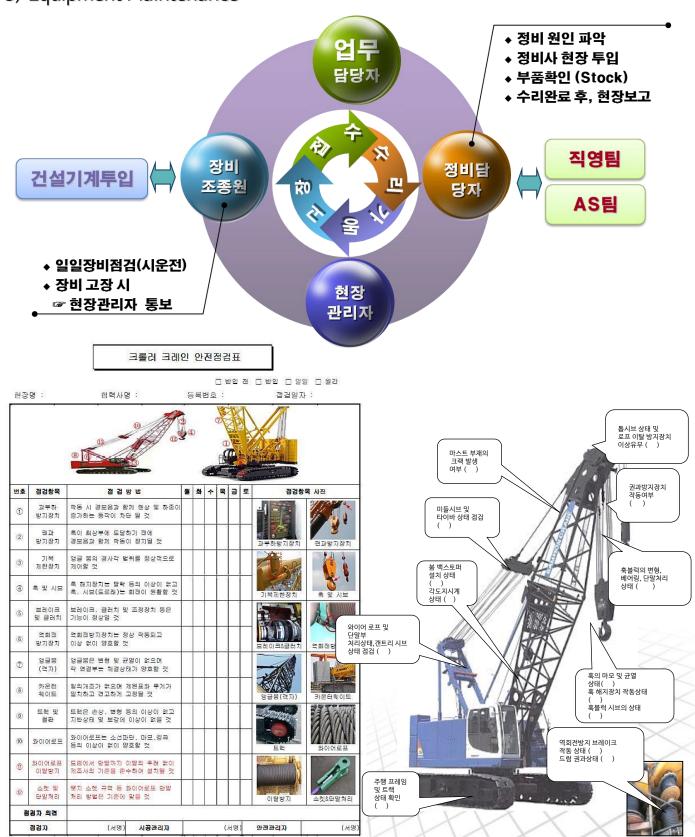
Key Safety Manage

- ► Review of material fall safety cases when using a crane
- Constriction due to insufficient work area / overturning caution
- Safety team approval confirmation before work (heavy equipment approval letter)
- When lifting crane materials, check wire connection. Lift materials according to the signals of the signalman.
- Securing the work zone for the guide
- Work proceeds after safety team approval



II. Safety Management

3) Equipment Maintenance



III. WORK FLOW

1) Ground Reinforcement Plan

- After the on-site survey meeting before the arane input, it is decided whether or not to input the work
- When inserting soft ground, after burying steel mat (220T), compact rubble and install the crane
- > After laying the steel plate (50T) in the ballast trailer swing section, work is carried out





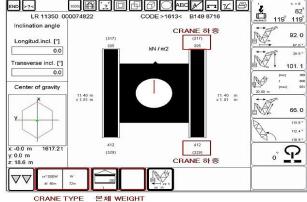
2) Ground Bearing Pressure

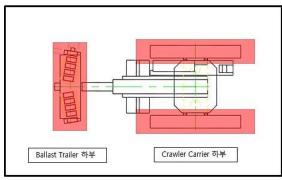
- > Ground endurance test before equipment input
- > Securing site-required load capacity of soft ground Reinforcing steel mats and steel plates
- pround reinforcement rubble compaction
- 다. Crawler Carrier 하부 최대 지내력 (Steel Mat보강시)

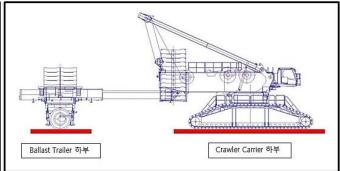
DESCRIPTION	CALCULATION	REMARK
Crawler Crane 면적	(13.1m x 2.4m) x 2ea = 62.9m²	Steel Mat(2.4m x 6m x 220t)
Total Weight	916.3ton + 466.5ton = 1382.8ton	
지내력	1382.8ton / 62.9m' = 22.0ton/m'	
요구 지내력	22.0ton x 안전율(1.3) = 28.6ton/m'	

라. Ballast Trailer 하부 지내력 (STEEL PLATE)

DESCRIPTION	CALCULATION	REMARK
Ballast Trailer 면적	(4.8m x 6m) x 2ea = 57.6m	Steel Plate(2.4m x 6m x 50t)
Total Weight	600.0ton	
지내력	600.0ton / 57.6m² = 10.4ton/m²	
요구 지내력	10.4ton x 안전율(1.3) = 13.5ton/m	



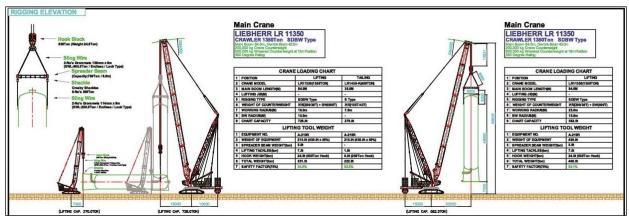


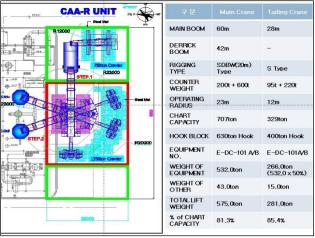


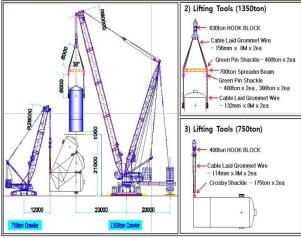
III. WORK FLOW

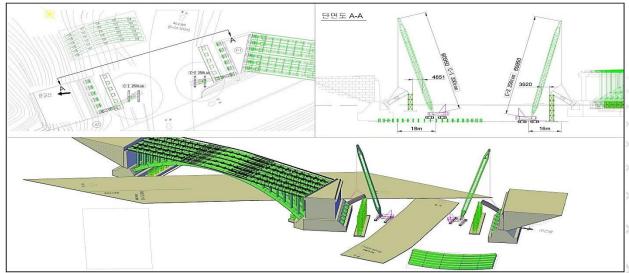
3) Rigging Simulation(2D, 3D)

- > Conducting meetings with suppliers after reviewing the rigging plan before entering the field
- > CAD (2D, 3D) rigging plan and LIEBHERR program (LICA PLAN) review, safety assurance









III. WORK FLOW

4) Ass'y Plan

- Departion of a direct management team with over 300 assembly & disassembly experience in Korea
- > On-site Know-How Abundant Equipment Specialist Arrangement
- > Equipment direct management AS team always on standby
- > Establishment of a rapid maintenance system by pre-equipment of spare parts







Ass'y Flow Chart







5) Load Test

- Ground condition check. Check mat condition. Confirm
- Safety device . Enter specifications. Confirm
- Check and confirm whether or not there is a problem with the system
- Securing work efficiency and safety through smooth communication with the signalman
- > Work input after daily operator inspection

